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F16. 1

1 DATA STRUCTURE 33 UENDOR BROWSER 54 56 CLIENT DIST. 1 CLIENT Z -66 36 40 38 CONFIG RIUSALE CLIFENT 3 R2 DATA USAGE Rz usage RI WAGE 105 RZ USAGE 82 51 87 - 89 60 CLIENT 3 CLIENT m, 70 CLIENT 12 P157. 1 RI CLIENT 4 F16.2 BROWSER

CLIENT PROG - INST "RI" -100 · START \_ TIME DOL - OPEN DOC \_ CLOSED : 10 PAGES STOP \_ TIME START-TIME DOC \_ OPEN DOC \_ CLOSED: 30 PAGES ( DISTILLATION MZ # PAGES 108 #DwGs CPU TIME CLIENT PROG - INST "RZ" DISTILLATION STOCK QUERIES QUOTES SERVICED TRANSMITTED

FIG. 3

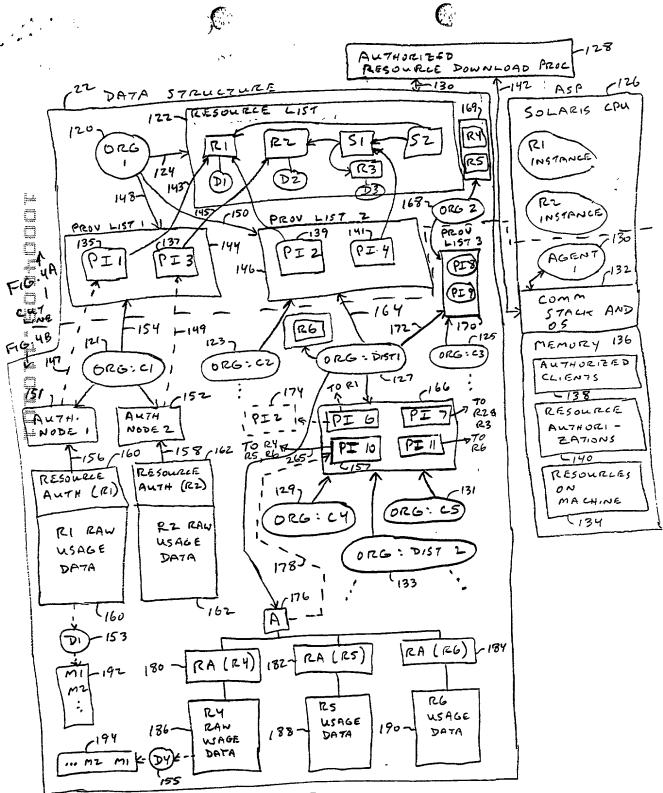


FIG. 4

Merch San Angelog (1984) San Angelog (1984)

#### OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING

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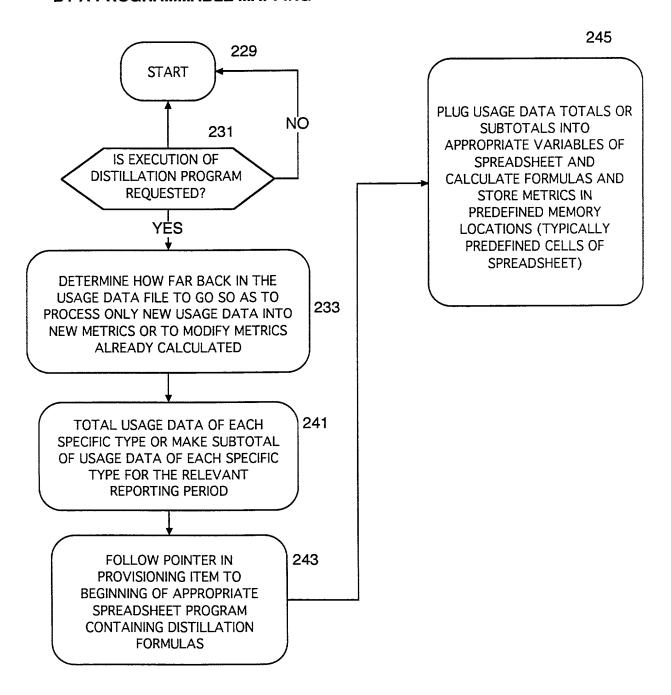


FIG. 6A

#### OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING USING A PROGRAMMABLE DISTILLATION PGM

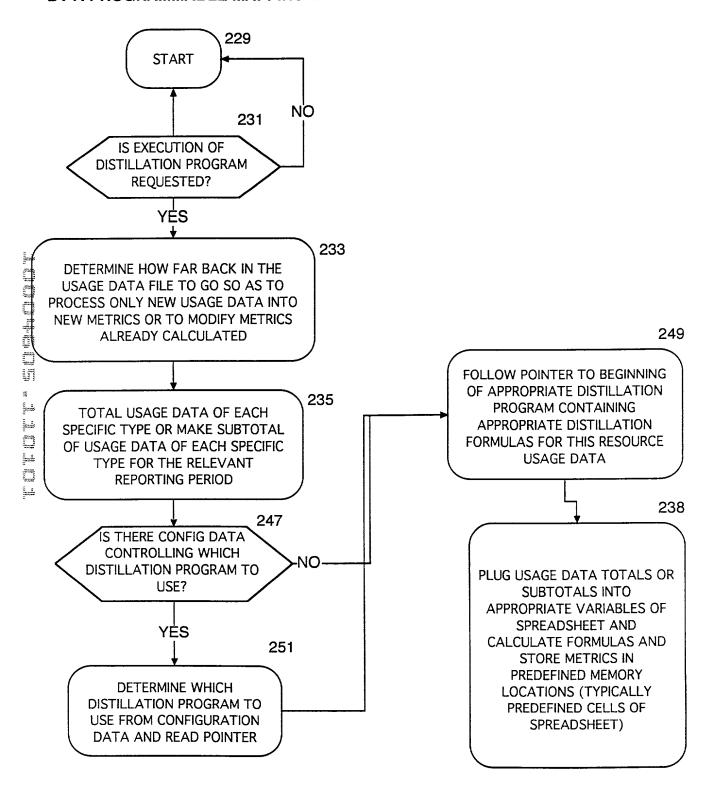
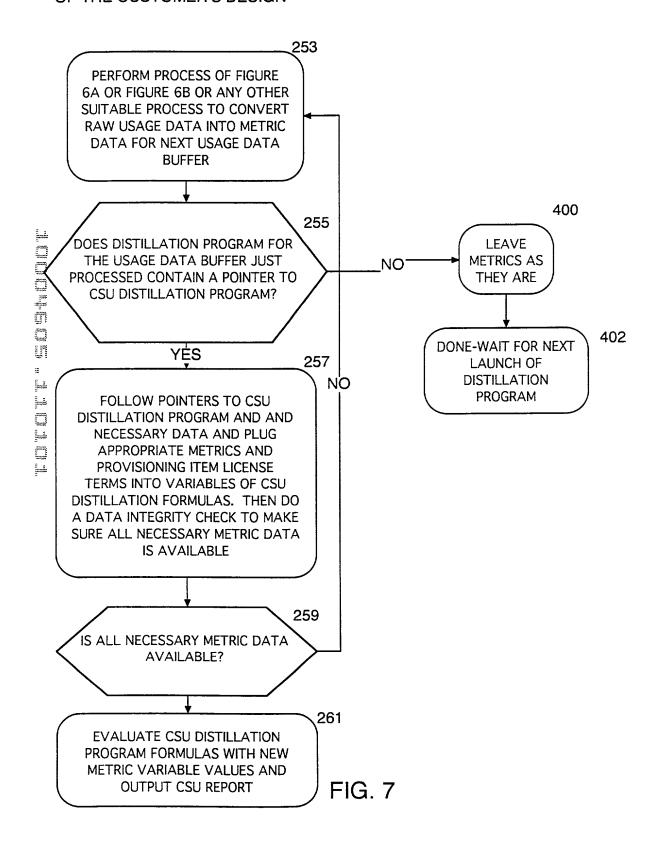
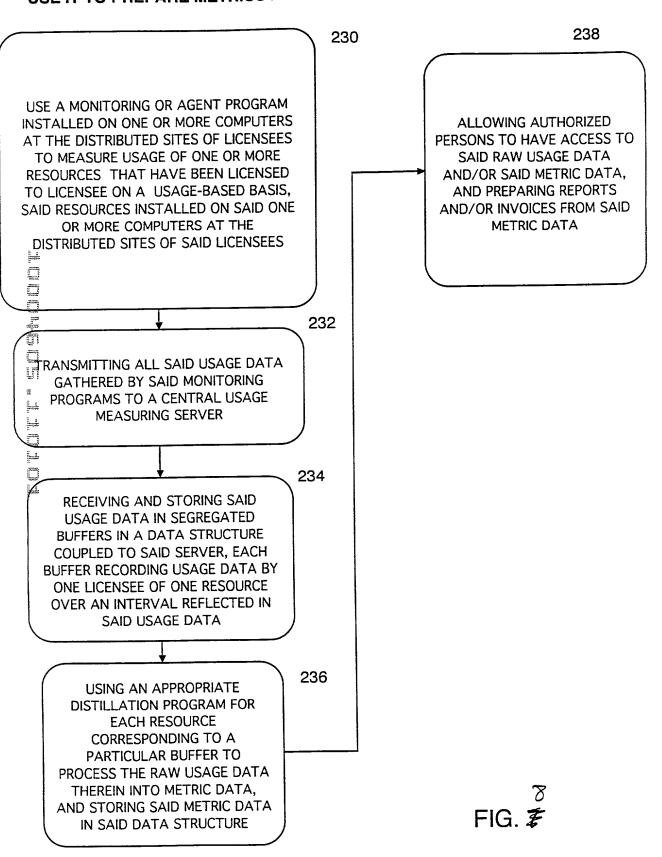


FIG. 6B

PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS OF THE CUSTOMER'S DESIGN



# OVERALL PROCESS TO COLLECT RAW USAGE DATA IN A CENTRAL SERVER AND USE IT TO PREPARE METRICS AND PREPARE INVOICES OR REPORTS THEREFROM



## PROCESS TO BUILD USAGE MEASURING SERVER DATA STRUCTURE AND ALLOW RESTRICTED ACCESS THERETO

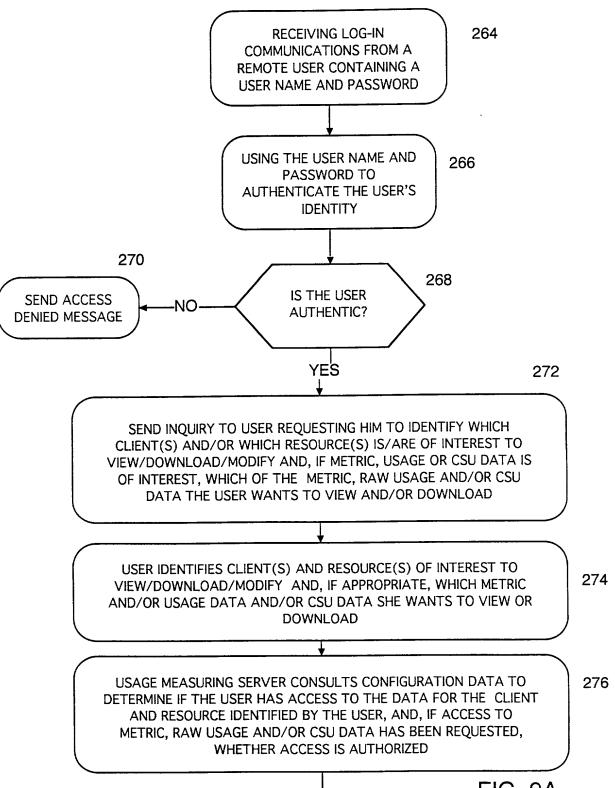


FIG. 9A

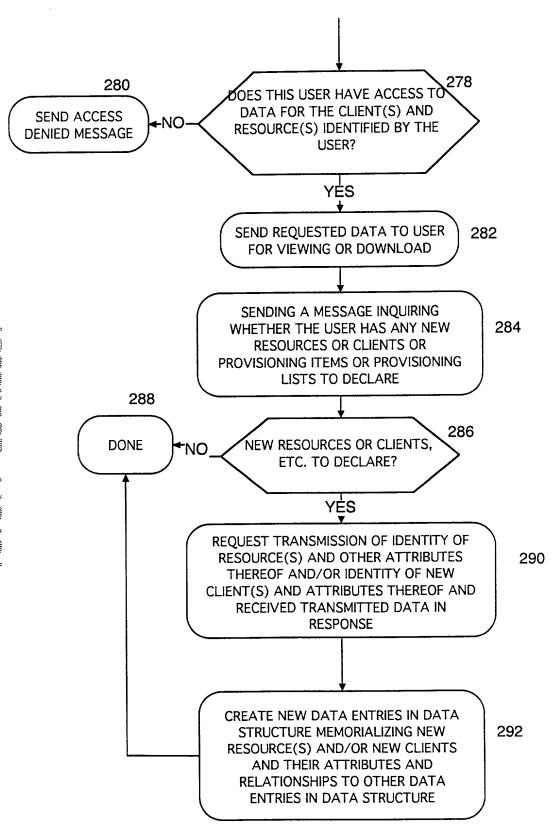
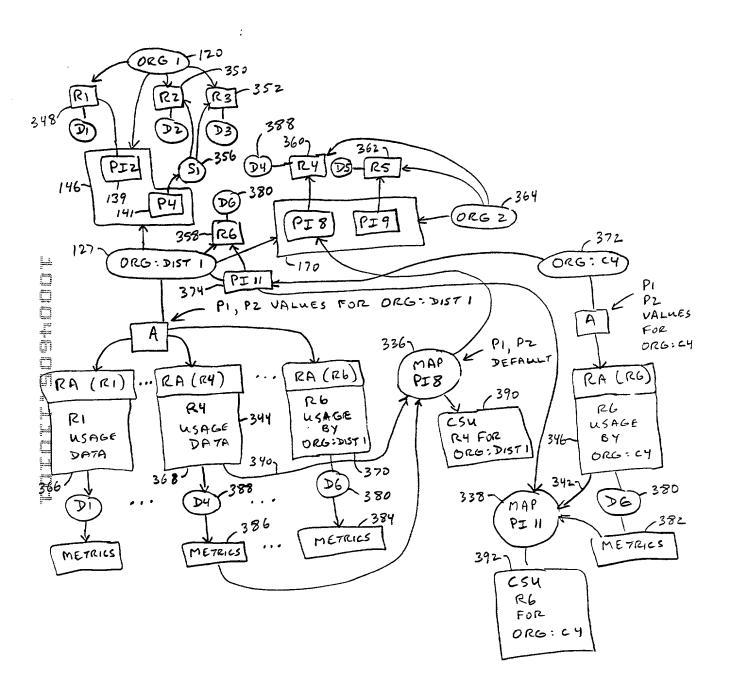
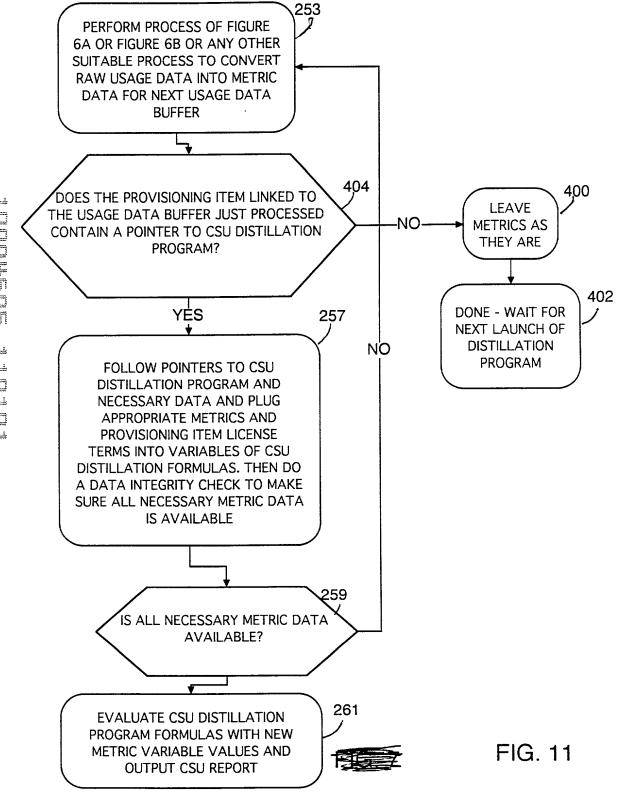


FIG. 9B

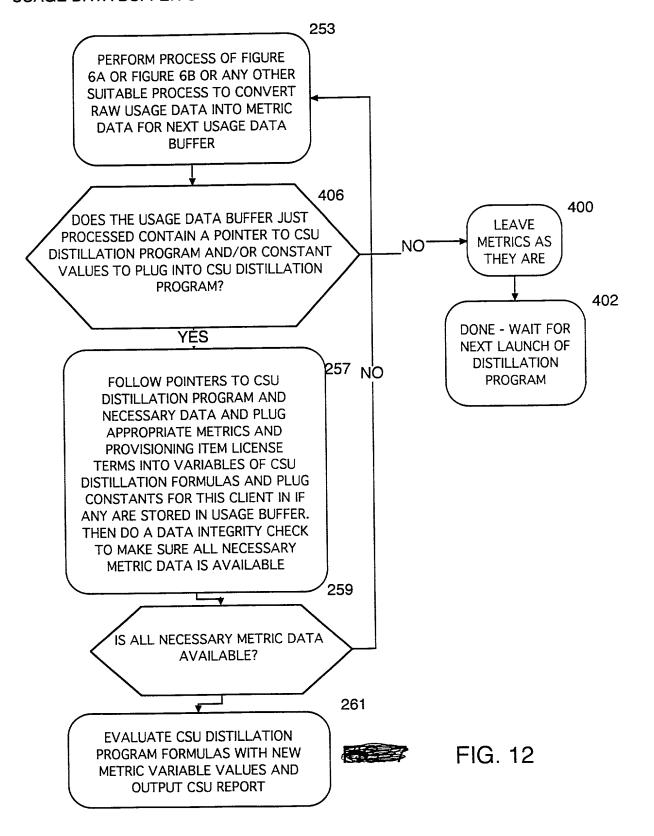


F16.10

ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO PROVISIONING ITEM DETAILING LICENSE TERMS



ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO THE USAGE DATA BUFFER OF EACH CLIENT THAT WANTS CSU BASED REPORTS



## PROCESS TO CREATE DATA STRUCTURE TO SUPPORT SUITE LICENSING AND TO USE THE DATA STRUCTURE TO IMPLEMENT SUITE LICENSING

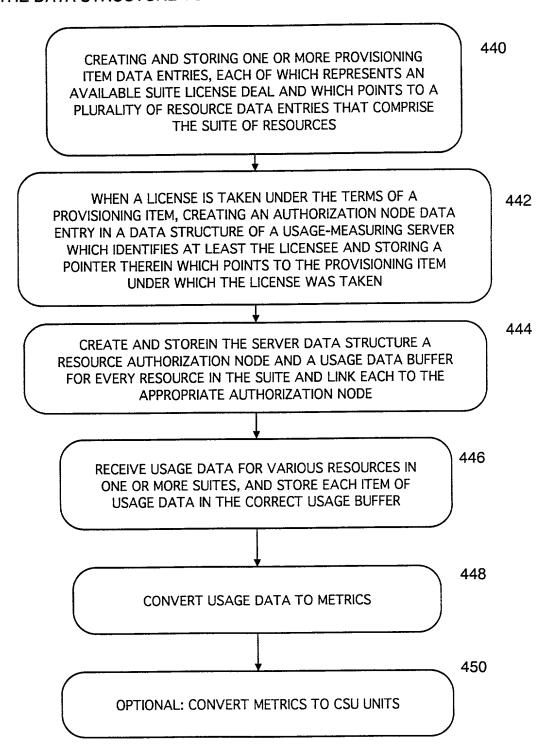
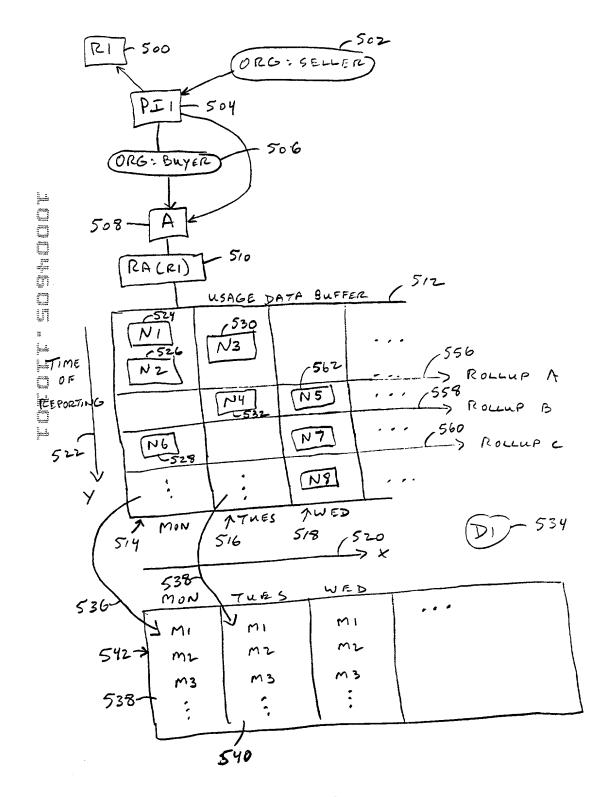


FIG. 13

ONE STOP SHOPPING PROCESS TO DETERMINE ALL AVAILABLE LICENSE DEALS ON A PARTICULAR RESOURCE 480 470 SERVER FOLLOWS POINTERS CUSTOMER LOGS IN AND PROVIDES FROM SELECTED RESOURCE AUTHENTICATION USER NAME AND DATA ENTRY TO ALL **PASSWORD** PROVISIONING ITEMS THAT POINT TO SAID RESOURCE DATA ENTRY AND WHICH 472 RECORD AN AVAILABLE **USAGE MEASURING SERVER** LICENSE FROM A VENDOR OR **AUTHENTICATES USER AND** DISTRIBUTOR OF THAT TRANSMITS DATA TO USER RESOURCE PROVIDING A WEB INTERFACE WHICH ALLOWS USER TO SELECT A LINK OR ISSUE A COMMAND TO 482 SHOP ALL AVAILABLE DEALS SERVER ACCESSES LICENSING TERM DATA IN EACH PROVISIONING ITEM AND SENDS MESSAGE(S) TO **USAGE MEASURING SERVER** 474 CLIENT LISTING EACH TRANSMITS DATA TO DISPLAY A AVAILABLE LICENSE AND ITS LIST OF ALL RESOURCES AVAILABLE **TERMS** FOR LICENSING 484 476 USER PICKS A RESOURCE TO CLIENT SELECTS A LICENSE SHOP AND CLICKS ON IT OR AND SENDS A MESSAGE BACK OTHERWISE SENDS A MESSAGE TO INDICATE SELECTION 486 **OPTIONAL: SERVER RECEIVES** 478 SERVER RECEIVES MESSAGE MESSAGE AND SELECTING RESOURCE AND **AUTOMATICALLY ESTALISHES** ACCESSES DATA ENTRY FOR AN AUTHORIZATION NODE FOR SELECTED RESOURCE THAT CLIENT LINKED TO THE PROVISIONING ITEM FOR THE SELECTED LICENSE DEAL AND **AUTOMATICALLY CREATES A** RESOURCES AUTHORIZATION NODE AND USAGE DATA BUFFER FOR EACH RESOURCE LICENSED UNDER THE

PROVISIONING ITEM486

FIG. 14



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FIG. 15

## PROCESS TO COLLECT USAGE DATA, PARTITION IT INTO TIME SEGMENTS AND GENERATE METRICS THEREFROM

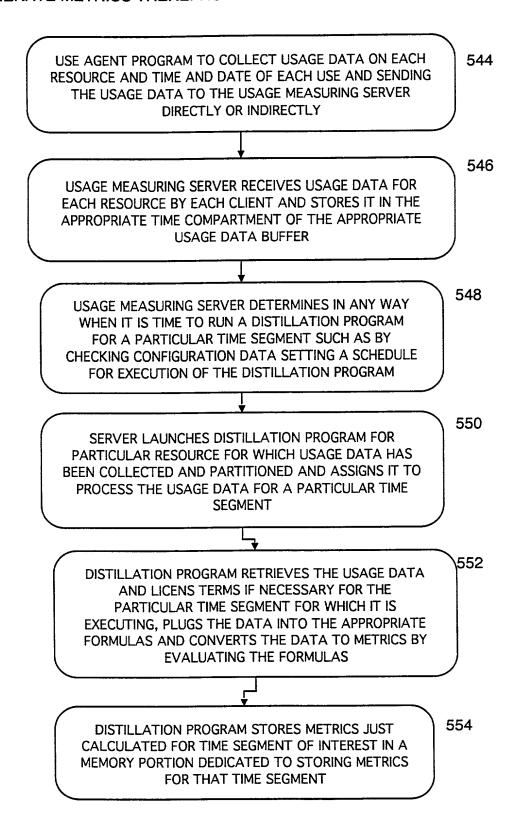


FIG. 16

	170N	ROLLU TUES	PA I WED	P 39
MI =	10	1	٥	,
MZ= Docs	500	50	0	• • •
M3- # PGS	759	ור	0	. , .
# \\\		,	?	

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PREFERRED ROLLUP B ID 50

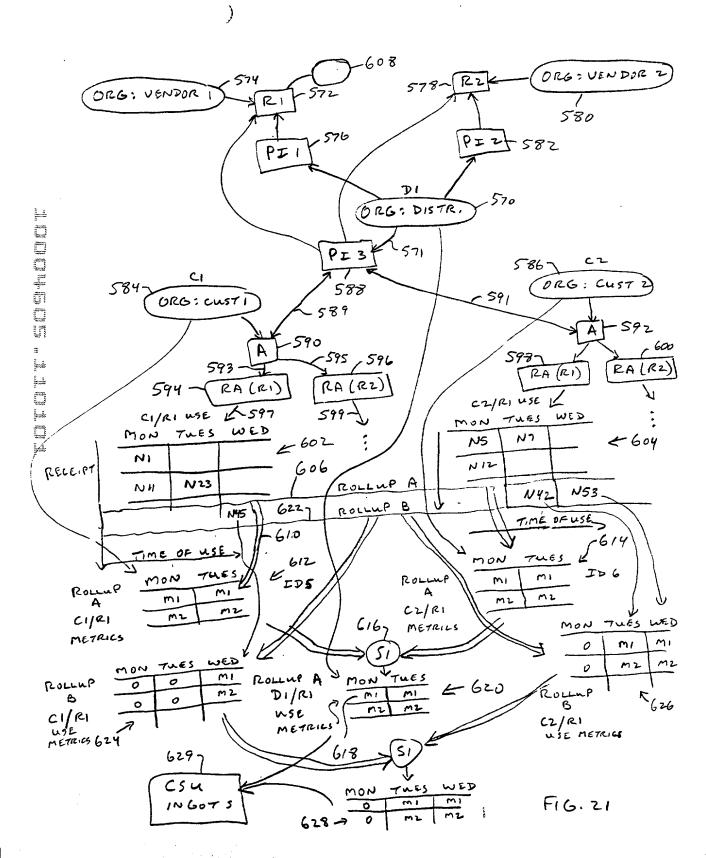
Mon	THES	WED				
10	4	2				
500	120	40				
759	210	96				
FIG. 19						

ALTERNATIVE					
ROLLUP		B ID 40			
MON	TUES	WED			
0	3	2			
0	70	40			
0	139	96			
	1				

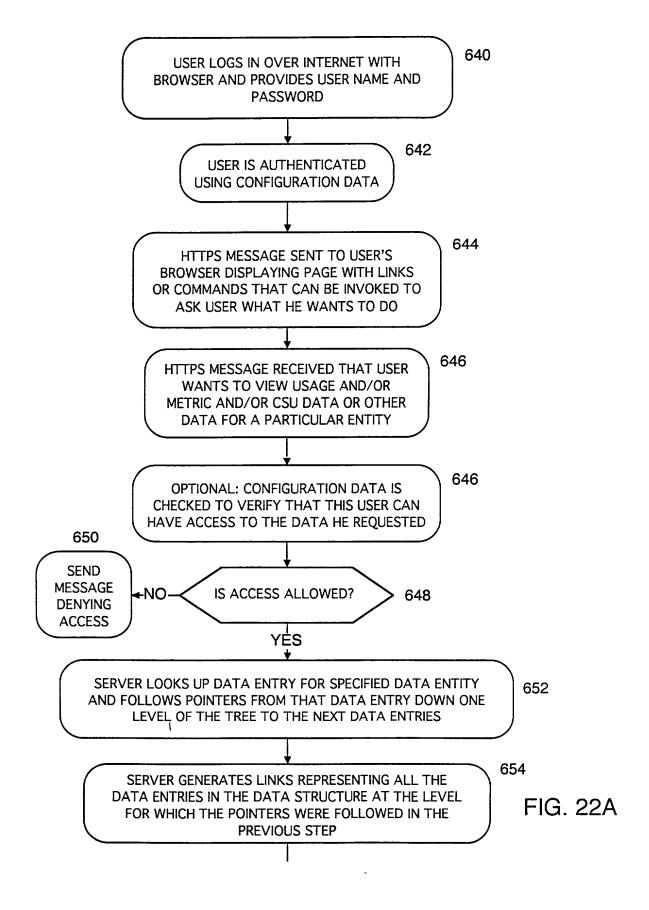
F16.18

ALTERNATIVE TO 4.  ROLLUP B TD 4.  MON TUES WEI				
4	2			
120	40			
210	96			
	120			

F16.20



## PROCESS FOR ONE PROTOCOL ACCESS TO USAGE/METRIC/CSU DATA FOR ALL LICENSEES OF A LICENSOR FROM A USAGE MEASURING SERVER



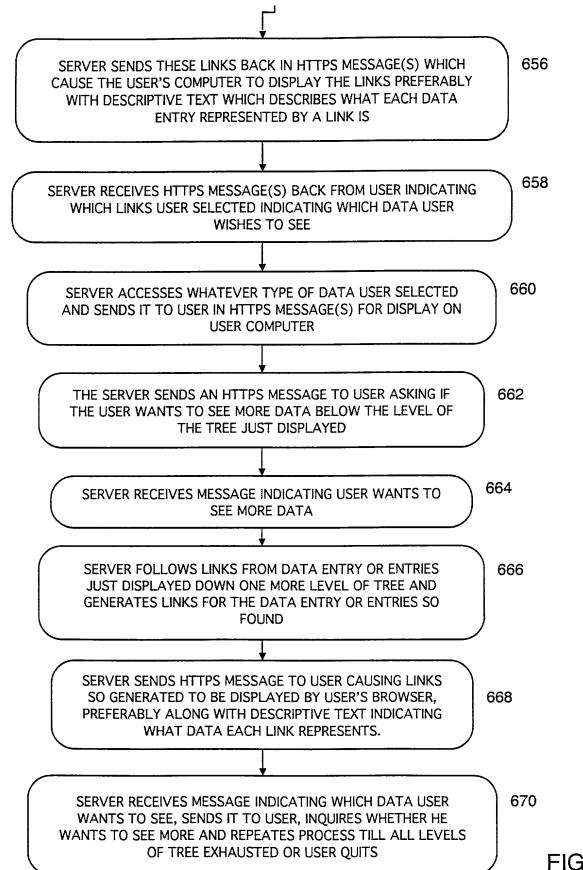
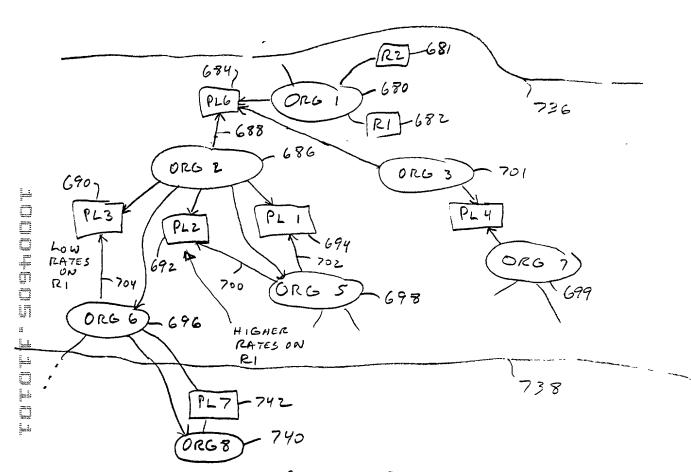
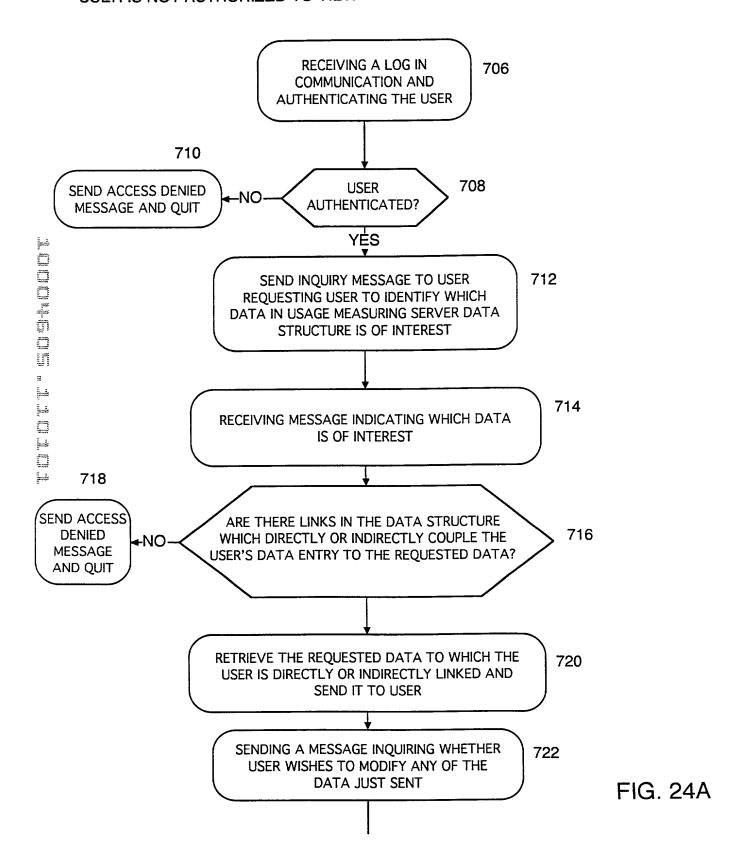


FIG. 22B



SECURITY BARRIERS FIG. 23 A PROCESS TO IMPLEMENT SECURITY BARRIERS TO PREVENT USERS FROM VIEWING DATA IN A USAGE MEASURING SERVER DATA STRUCTURE THAT THE USER IS NOT AUTHORIZED TO VIEW



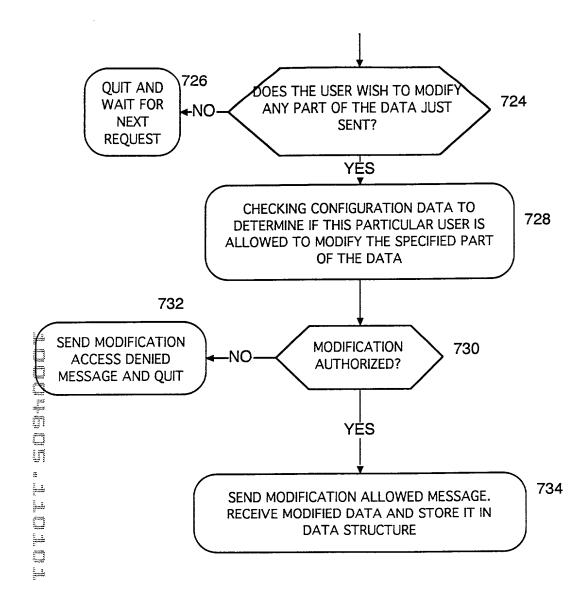
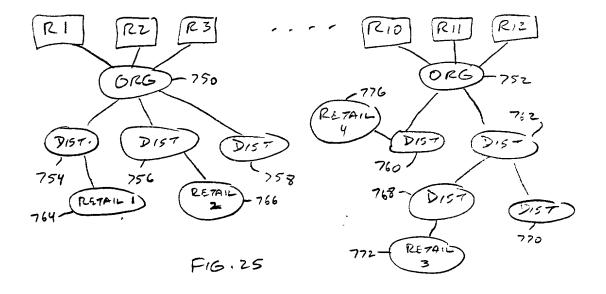
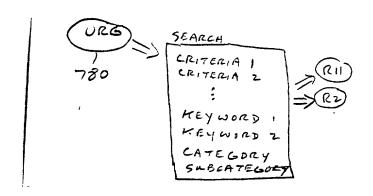
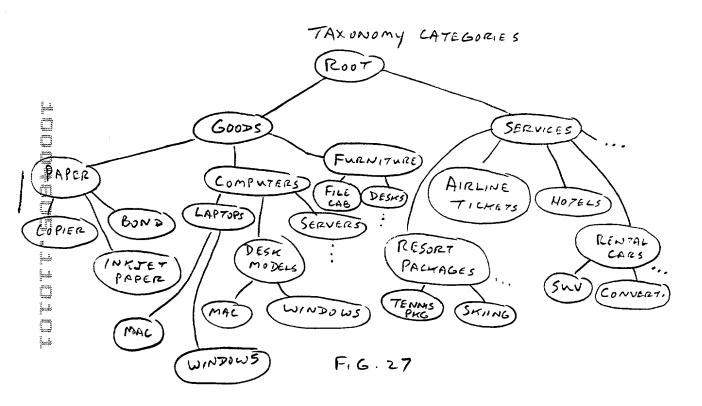


FIG. 24B





F16.26



### SERVER PROCESSING TO IMPLEMENT ONE-STOP SHOPPING SEARCHING OF THE DATA STRUCTURE BASED UPON USER-DEFINED CRITERIA

